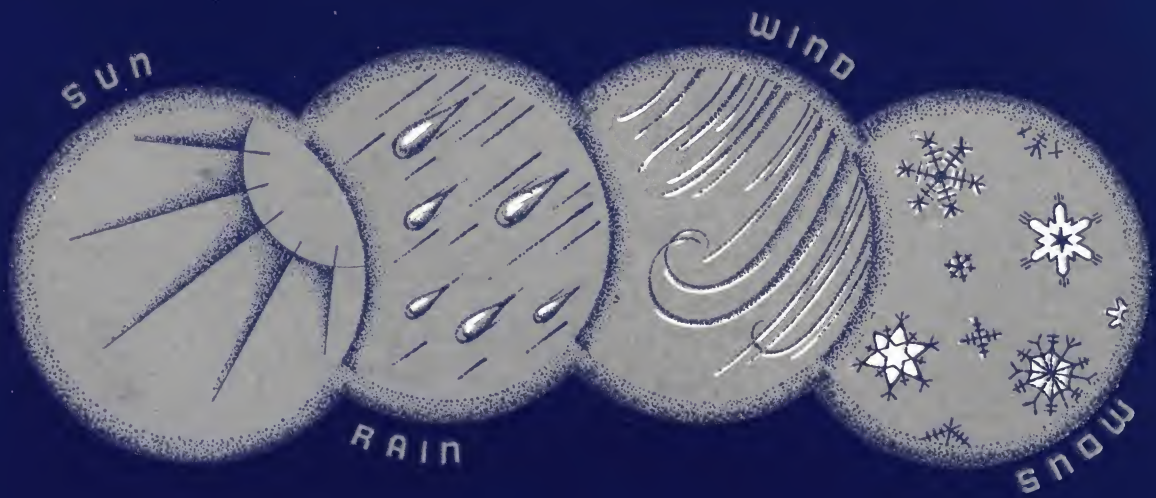


CAN HARM THIS PLYWOOD

NO WEATHER MADE



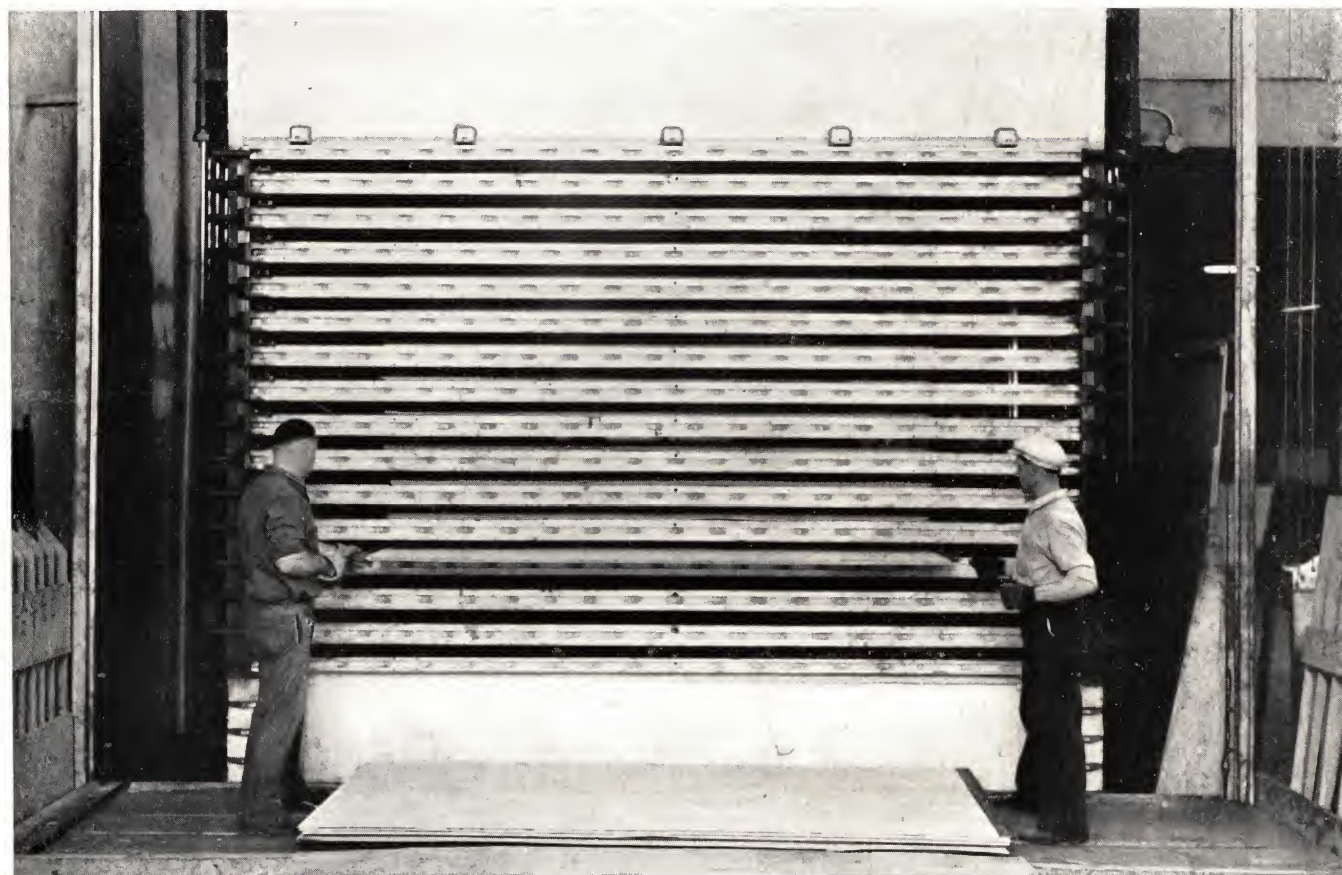
SUPER-*Harbord*

for
all outdoor
purposes

HARBOR PLYWOOD CORPORATION...MILLS AND GENERAL OFFICES, HOQUIAM, WASHINGTON

Where **PLYWOOD** goes **MODERN**

One of **SUPER-Harbord** Hot Plate Presses



THE BINDER AND THE PRESS

constitute the two basic reasons for Super-Harbord's claim to outdoor durability. First, the artificial resin substance developed in product so that modern architects, builders and contractors can keep pace with the times.

Harbord's own laboratories (see details next page) and patented by the HARBOR PLYWOOD CORPORATION and second, the modern hot-plate press which, through heat and tremendous pressure applied simultaneously, welds the plies together to form, in effect, one solid piece of lumber with all the advantages of lamination. Modern ingenuity developed the press, modern science the welding bond and modern machinery finishes the

Quality Control

The buyer's assurance of quality in Super-Harbord is safeguarded by the fact that Harbord operates the only mill in the plywood industry with a complete research laboratory equipped with scientific apparatus and manned with competent chemists and engineers, not only engaged in research work, but also, controlling the manufacturing process and materials at every step of manufacture.

SUPER-Harbord

• THE OUTDOOR PLYWOOD •

UP to the present time there has never been any reasonably priced plywood manufactured which would withstand constant exposure to moisture and moisture changes. This lack of full utility has hindered the architect and builder in making adequate use of the product. Indoors he has been able to achieve remarkable effects in beauty, design and economy—outdoors he has perhaps been somewhat discouraged because of the need for a product equal to the job. It was that plus quality he looked for. In Super-Harbord he gets just that.

In simple terms Super-Harbord is ordinary plywood which science has taken by the hand and refined. From every standpoint it is an advanced product—in

lighter weight, greater strength, smoother surfaces, higher durability under all conditions; in positive weather proof quality and resistance to molds, fungi and insects through the rot-proof binder. It can be used advantageously wherever ordinary plywood is used and to far greater advantage in all outdoor and many special uses where the wood is subjected to extremes of temperature, bad weather conditions and insect infestations. Every panel is unconditionally guaranteed against separation of plies.

The Binder

Carefully selected veneers are fused together under tremendous pressure and heat by means of the strongest kind of binding agent yet devised—a resin-base bond, patents on which are held exclusively by the HARBOR PLYWOOD CORPORATION. The binder used in Super-Harbord is not only absolutely impervious to water, under any and all conditions, but is actually insoluble in water and chemically inert. Super-Harbord does not show any separation of plies when subjected to boiling water or live steam exposures. It is also resistant to attack by mold, fungi, and bacteria. It possesses extreme flexibility, will not crystallize or crack with distortion. Yet with all this

it is not abrasive as is regular commercial glue and far less damaging to the cutting edges of saws, planes, chisels and other tools.



BAFFLING THE ELEMENTS *with SUPER-Harbord*



Newest product of Owens Yacht Company in Baltimore, Md.—
in which Super-Harbord fills an important construction service.



The Super-Harbord rowboat, designed to demonstrate the simplicity and ease of building with Super-Harbord. (Below) Showing the bad result one boat owner experienced with ordinary plywood and how he is replacing with Super.

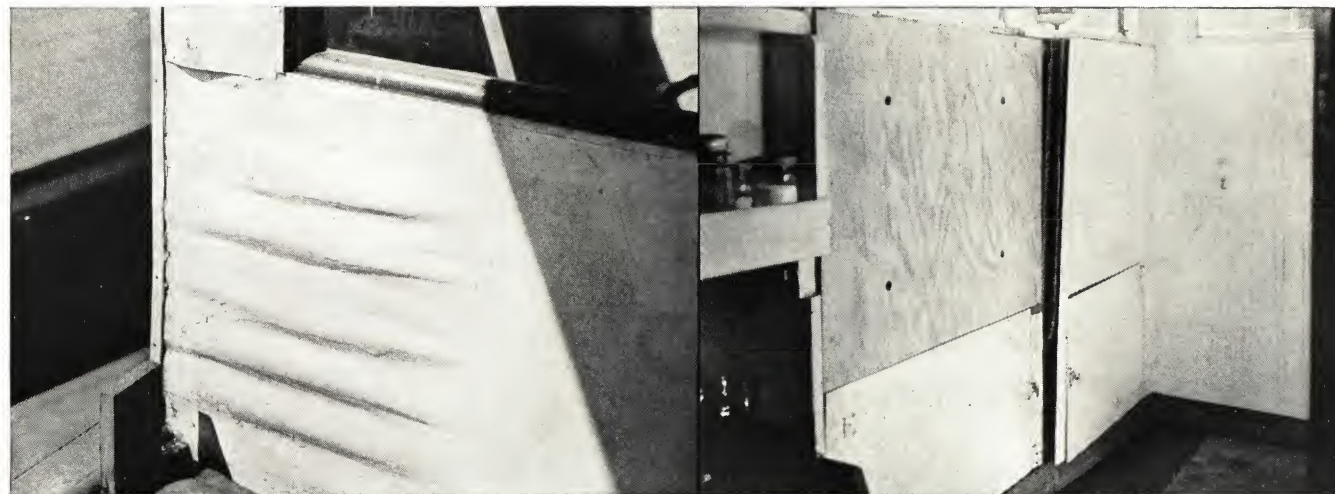
Constantly facing heavy moisture conditions, including salt spray, plywood for marine use must have maximum stamina. Boat builders and operators from Atlantic to Pacific, inland rivers and lakes, have seized upon Super-Harbord as the fitting material for decks, cabin framing, trim, instrument boards and lockers.

Over two years ago, Super-Harbord panels, without any external preservative treatment, were placed in the waters of Grays Harbor, a salt water harbor. Today, despite exposure to sun, rain, salt water and freezing, the glue lines are as good as the day they were manufactured. There has been no separation of the plies.

While Super-Harbord has been developed primarily to combat the destructive influences of moisture, insects and fungi for outdoor construction, it has certain additional advantages over ordinary plywood in connection with interior use. One of these is the more attractive appearance effected by its use for walls and ceilings. Super-Harbord can be panelled and battened over the joints like ordinary plywood, but also the joints can be filled and sanded to such perfect smoothness that, when painted, there is not even the slightest evidence of thin existence.

Super-Harbord has the further and very important advantage of permitting tight joints that stay tight, because it always presents an edge as clean and smooth as that of a solid single piece board. This is due to the exclusive process of Super-Harbord manufacture which prevents all core voids.

Stronger than steel, pound for pound, its ultra-smooth finish, extreme durability under all outdoor and indoor conditions make it the most "usable" building material available. Architects and builders are obtaining amazing results and outstanding modern effects with Super-Harbord in all parts of the country.

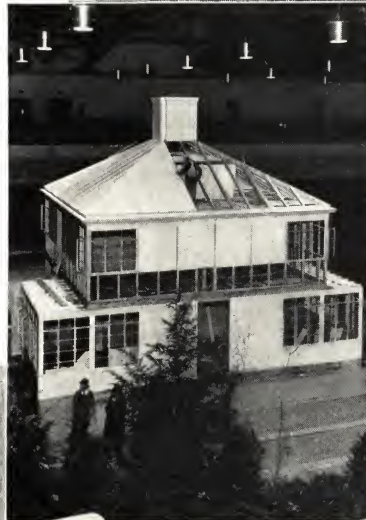
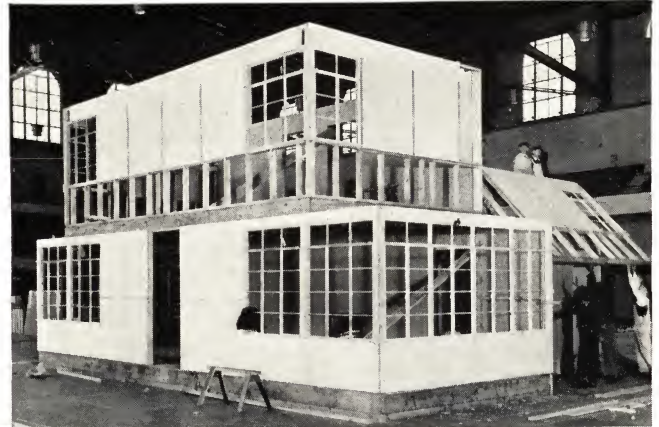


PREFABRICATION PROBLEMS SOLVED . . .

All of Super-Harbord's points of superiority make it thoroughly practical for prefabricated wall units. In fact the panel's outdoor qualities make possible a standard factory built unit complete from inside to outside wall and one more flexible for general use. Practical demonstration of Super-Harbord for such use has been made in building shows, such as the Baltimore Home Exposition and in homes recently built by various wall unit manufacturers. The unit developed by E. A. Horn (Speedwall Company of Seattle) is a good example, employing the use of Super-Harbord exclusively.

With the Speedwall, units are standardized in one size only, all window and door openings being built up as a separate unit and inserted in the wall wherever wanted by cutting a wall unit at the desired point. The piece cut off is used on the other side of the door or window unit. There is no waste. These units weigh approximately 60 pounds each and one man may handle with ease. However, a two man team makes a more efficient erection force. The standardized unit offers to the contractor, building material dealer, and developer, a combination lumber and plywood product which can be incorporated in any floor plan and small building design—in other words, it is a plywood building unit, just as brick and tile are masonry

units except that six of these plywood wall units will build 100 square feet of walls. These walls may be filled with a loose-fill insulation when desired.

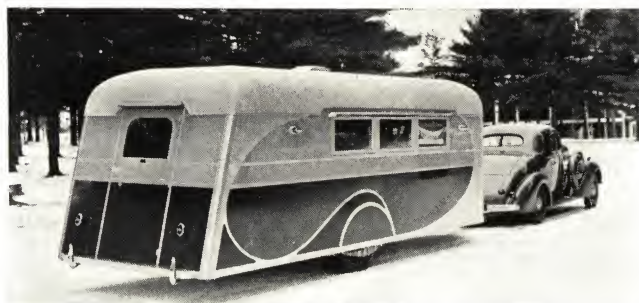


The Speedwall is unique in that it permits absolute flexibility of design, length of walls or partitions, and places no restrictions upon size or location of door or window openings. It has the further advantage of being readily marketed through retail dealers or other customary building channels.

SUPER-Harbord FOR SUPERIOR PRODUCTS

Besides proving in countless ways its perfect adaptability to both indoor and outdoor building, Super-Harbord is becoming more and more a favorite material in a wide and growing field of product manufacture. This increasing popularity is due not alone to the great strength, lightness and moisture-resisting feature of Super-Harbord, but also in a considerable measure to the unusual effects and artistic joints made possible by this material, and to the additional fact that its ultra-smooth surface takes remarkable paint, stain and plastic finishes.

Business and industry have been among the first to recognize and apply the cost saving, practical principles of this plus plywood. Manufacturers of refrigerators, incubators, radio cabinets, portable and pre-fabricated houses, trucks and buses, trailers, outdoor furniture, boats and a host of other products can see direct profit in utilizing a plywood which gives longer service under all conditions—a more satisfactory product all around. The lower moisture content makes panels of Super-Harbord more workable. Saws and cutting tools are dulled less by the resin binder. Greater strength and smoother finishing surfaces are also secured.



Two views of De Luxe Trailer from plans by Hammer-blow Tool Co., Wausau, Wis.—Super-Harbord in frame, floor and side walls.

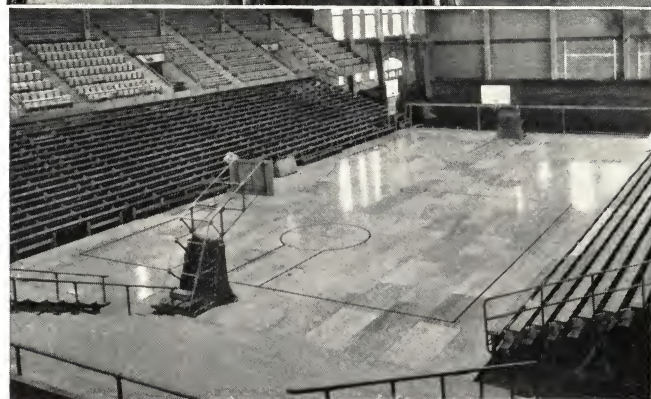
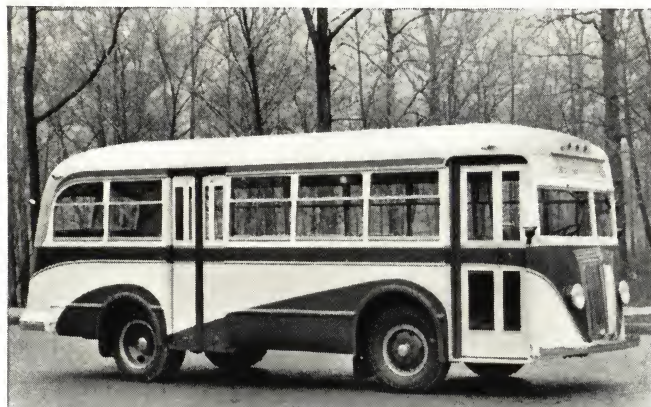


Two views of Fold-Flat boat, manufactured by Gilbuck Co., Los Angeles—illustrating Super-Harbord's lightness and compact strength as well as durability in water.



FIRMER FLOORS

Floors and sub-floors built of Super-Harbord have many advantages, first in soundness and durability, second in the substantial saving of labor cost. The big panels save up to 60% in sawing, handling, fitting, joining and nailing time—squeaking is cut down because of fewer edges and because nails grip Super-Harbord more tenaciously—about 20% saving over shiplap is secured because Super does not lap at the edge, every square inch being utilized. Where subfloors are laid in damp places, subject to fungi and rot, or in sections infested with termites, the use of Super-Harbord means far fewer replacements.



(Above) Super-Harbord basketball floor in University of Washington Athletic Pavilion, capable of being taken up for spring and fall field events.

Greater Strength and Flexibility with Lighter Weight

Ordinary plywood is "stronger than steel—pound for pound", yet Super-Harbord steps up this quality due to the fact that the plies are welded together—are tighter with no danger of separation. Where less sturdy materials will often fracture from a blow or continued pressure, Super-Harbord remains solid and intact, presenting a surface that will not dent nor mar easily, which resists shrinking and swelling. Panels will not sag or work loose from the nails, even when nails are close to the edge, which the laminated construction permits, without danger of splitting.

Increased flexibility and lighter weight come from these qualities of the binder. Tests have proven that the binder, after being soaked in water for days, cannot be destroyed by distortion and that the panels can stand added strain without breaking. Because the binder is a dry resinoid substance and because of the heat and pressure binding process, the moisture content can be brought much lower and held lower than with ordinary plywood. Due to this control, Super-Harbord is made with any moisture content wanted for specific purposes.

(Left) One of the buses built by the Bender Body Company of Cleveland and (below) coach by A. C. F. Motors and J. G. Brill Co. of Philadelphia, where stronger, sounder floors and other parts are secured with Super-Harbord.



BETTER SIGNS for BETTER TIMES

Ideally suited to outdoor sign construction, Super-Harbord is being used effectively for Store Fronts, Outdoor Advertising Bulletins, "A" Signs, Animated Figure Signs, Theatre Lobby Displays, Convention and Exposition Displays, Dealer Identification Signs, Real Estate Signs. The exclusive feature of ply-welded-to-ply by means of the resinoid binder hot-press, renders these panels adequate to all weather conditions and the customers' demands for quality. Ease of working, permanence and ultra-smooth finish surfaces qualifies Super-Harbord for economical construction as well.

Of great advantage to the carpenter, contractor or sign builder is the lightness and ease of handling of

Super-Harbord Plywood. Yet the working superiority of this product only begins here. Of primary worth is the fact that the natural resin bond is far less harmful to the cutting edges of tools than the regular commercial glue binder. Its resin base contains no abrasives whatever (such as lime, silica, etc., as in other processes) and presents no more resistance to saw teeth or plane edge than does the wood itself. Again all panels of Super-Harbord Plywood are built with sound cores.



(Left) Figure sign 7 feet high, mechanically moving head, used for convention purposes, and (left and right) Types of outdoor signs built by Foley Sign Co., Seattle.

(Top) Builder's sign which takes advantage of publicity value of Super-Harbord. (Center) Modern treatment of Super-Harbord in outdoor bulletin used by Sunset Outdoor Advertising Co., Seattle.



SUPER-Harbord

THE OUTDOOR PLYWOOD

THRIFT *plus* BEAUTY *with Plus* PLYWOOD

Ideas run rampant when the full nature and possibilities of Super-Harbord are understood. Indoors and outdoors alike this super panel does double duty—in furnishing the architect and builder a cost-cutting material compared with most lumber and one of wide utility. Used for ultra-modern wall panelling effects; for walls and ceilings of great strength and durability, Super-Harbord remains unexcelled. Where an exceptionally fine paint or stain surface is desired, a patented filler can be applied at the plant which reduces grain-raising to an absolute minimum.

There is no need to sacrifice either economy or appearance when designing homes or planning store and office interiors. It actually costs less to build with Super-Harbord when time of construction and length of service are considered. Coming as it does in large panels which permit quick application, Super-Harbord saves valuable time. Then, because its utility cannot be impaired by weather, moisture, rot,

termites and other destructive forces, the need for future replacement is eliminated, and thus maintenance expense is greatly reduced.

At the same time the versatility of Super-Harbord in creating unusual artistic effects assures a type of beauty obtainable only with a material of this kind, a beauty still further enhanced by the exceptional paint, stain and plastic finishes to which the silk-smooth surface of Super-Harbord lends most competent assistance.

Still further attractiveness is achieved in the concrete portions of buildings by making the forms with Super-Harbord. The large size of the panels and the tight fitting joints create a beautiful smooth surface free from unsightly seams. In this eliminating costly rubbing and finishing, Super-Harbord panels offer a definite economy augmented by the fact that the same panels can be used many times without showing any tendency to separate.

For farms and country estates Super-Harbord is invaluable. The big weather-proof panels are economical and practical for barns, milk sheds, root houses, chicken and hog houses. The bond is also proof against termites and rot, and it will serve well for many years.

Farm buildings go up faster . . . last years longer . . . with this new, durable, weather-proof outdoor plywood which withstands the severest weather and moisture changes year in and year out.

Super-Harbord is being used successfully by architects and builders for bathroom and shower room walls where continued assault by water is a factor. The application of a wood filler and durable paint plus the Super-Harbord panel makes this lower cost practical.



(Above) Modern office reception room, with Super-Harbord applied in 2 foot parallel panels, finished in driftwood gray with bright colored battens. (Below) Basement recreation room.

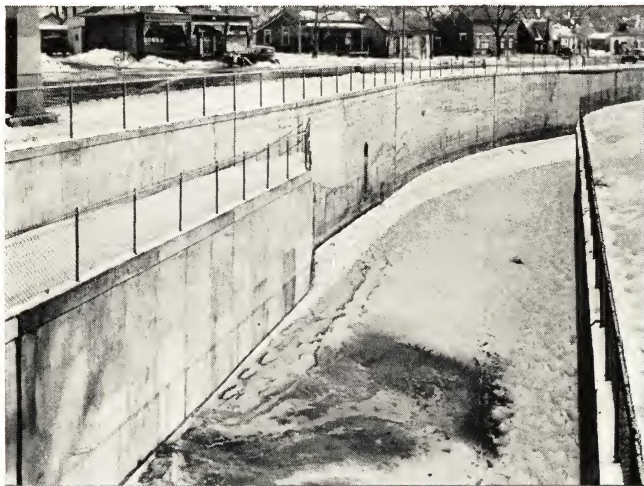


(Below, right) Mail car, Chicago, Milwaukee, St. Paul & Pacific R. R.

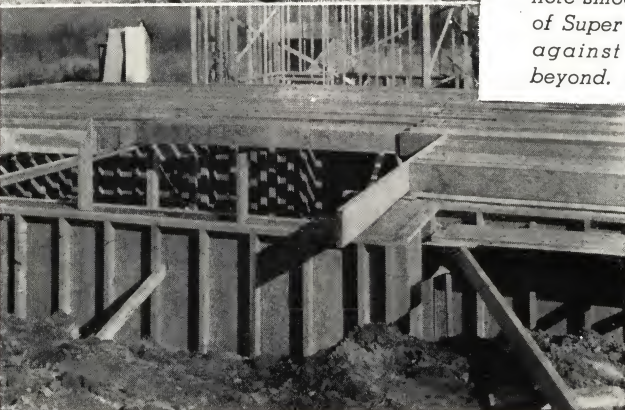


HARBOR PLYWOOD CORPORATION •

• HOQUIAM, WASHINGTON



(Above and below) Up to 55 re-uses of Super-Harbord panels on this Indian Creek Flood Relief project, Council Bluffs, Iowa—contractor, John Kerns Construction Co. Photo immediately above shows storage shed built of used panels after completed job.



(Bottom, left) Ordinary house foundation and (bottom, right) California storm drain. In latter and in photo at top of page note smooth finish of Super forms as against shiplap beyond.

LOWER COST CONCRETE FORMS

with

SUPER-Harbord PLYCRETE

Modern contractors have found in Super-Harbord the same plus qualities that make this material so effective an outdoor construction lumber. The manufacturer's guarantee against ply separation applies to this use also and in itself signifies what contractors know—that Super-Harbord will give a maximum number of re-uses before failing. It is super efficient in the building of forms for bridge piers and docks, spandrels, retaining walls, stair beams, floors, storm drains, irrigation ditches, all structural forms and liners. Specifically Super-Harbord Plycrete has these four distinct cost saving advantages:

- (1) More . . . more . . . more re-uses due to waterproof qualities and harder surfaces.
- (2) Large panels make forms go up faster.
- (3) Smoother surfaces and tight joints save costly rubbing and finishing.
- (4) Super-Harbord gives more strength under stress and strain.

Thus every advantage ordinary plywood has over ordinary lumber is stepped up in the case of Super-Harbord Plycrete—labor costs are cut to a large extent, the work is speeded up more.

Because of its harder wood surface, Super-Harbord Plycrete presents a more durable surface to the concrete. The plies being fused together, the binder insoluble in water, the panels may be re-used many times more than even regular Plycrete. If, when unloaded, the panels are treated carefully and liberally with oil on both sides, their usefulness can be prolonged still more. A good grade of paraffin oil is recommended.





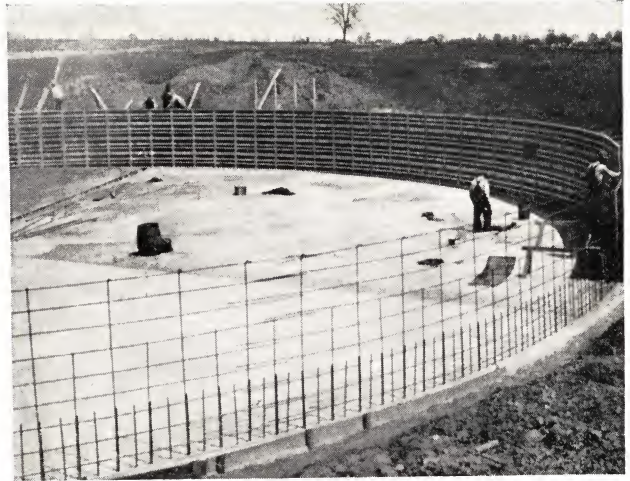
Type of metal form for concrete work manufactured by Universal Form Clamp Co., Chicago, in which Super-Harbord is used exclusively. By this combination "Walls are erected quickly, accurately and at a cost below other known methods." The two jobs illustrated are Sewage Disposal Plant, Princeton, Ind., and Bridge in Cook County, Ill.

Form costs are reduced due to the saving of carpentry labor in handling the lighter weight Super-Harbord Plycrete panels with their ultra-smooth surface. As in the ordinary plywood panel, costs in sawing, nailing, shaping, stripping, rubbing and brushing are reduced considerably.

So smooth are the sanded surfaces of this material, and so greatly do the large, tight-fitting panels reduce the footage of joints, that practically no rubbing is necessary. The joints stay tight because of Super-Harbord Plycrete's stubborn resistance to shrinking and swelling. Thus all the moisture is retained in the concrete, preventing honey-combed surfaces, as well as "fins."

With the Super-Harbord Plycrete 5-ply form all the work necessary to obtain the required size is ripping for width. This can be done right on the job, or, if time permits, at our mill. To obtain the specified sizes for beam or column forms which employ Super-Harbord Plycrete as a liner, two planks are spaced to the proper distance, fastened together by scabs, and the liner is then tacked to the opposite side of the planks, extending from outside edge to outside edge. By either method, a one-piece surface form is obtained, eliminating entirely the usual board marks left when the old type of form is stripped.

The fact that Super-Harbord Plycrete like ordinary Plycrete requires no overlapping edges means that 1,000 square feet of it cover 1,000 square feet of surface, whereas 1,200 square feet of shiplay would be required for the same area. Moreover the $\frac{5}{8}$ " panels cost less than shiplay with suitable lining.



For curved forms, the $\frac{1}{4}$ " panels can be bent without steaming to a radius as small as 15". If steamed for a few minutes, this thickness can be bent to an 8" radius. In reverse moulds, the panels can be nailed or screwed close to the edges without danger of splitting.

Super-Harbord Plycrete can be cut with either hand or power saws, and it will save on the re-sharpening as the non-abrasive resin binder keeps them sharp longer.

Specially shaped or shiplayed edges may be obtained on special order at little extra cost. In some form construction such shaped edges make fillets and quarter rounds unnecessary and simplify dismantling.

Stripping is likewise made easier by the use of these large panels and their rugged cross-grained construction resists damage in dismantling.

In carload lots shipped directly from our mill, we will, if it is specified, furnish the form panels treated with special water-proofing material at a small extra cost.

Deflection charts and special information in regard to concrete form uses will be furnished upon request.

HARBOR PLYWOOD CORPORATION • Mills and General Offices • HOQUIAM, WASHINGTON

SUPER-Harbord

THE
OUTDOOR
PLYWOOD



NOW AVAILABLE
THROUGHOUT THE
UNITED STATES

*at dealers displaying
this sign*

The Harbor Plywood Corporation maintains branch offices, distributing warehouses and representatives in the following cities. Communications addressed to the HARBOR PLYWOOD CORPORATION in any city will receive prompt attention.

HARBOR · PLYWOOD · CORPORATION

Mills and General Offices: Hoquiam, Wash.

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